## PATENT COOPERATION TREATY

From the NTERNATIONAL PRELIMINAL XAMINING AUTHORIT	ry		U 5 -05- 20 <sub>04</sub>			
То:		PCT	<u[]_{< td=""></u[]_{<>			
HEINÄNEN OY ANNNKATU 31-33 C FIN-00100 HELSINKI	INTE	RITTEN OPINION OF THE RNATIONAL PRELIMINAR' XAMINING AUTHORITY	Y			
Finland		(PCT Rule 66) 2.7.2004				
	Date of mailing (day/month/year)	0 3 -05- 2004				
Applicant's or agem's file reference	REPLY DUE	within 60 days from the above date of mailing				
104067 pj/ha International application No. International filing de	ate (day/month/year)	Priority date (day/month/year)				
Elici India		24-06-2002				
PCT/FI 2003/000508 23-06-2003 International Parent Classification (IPC) or both national classification	cation and IPC					
G02B 6/42						
Applicant						
Nokia Oyj et al						
1. The written opinion established by the International Searching Authority:  is is is not considered to be a written opinion of the International Preliminary Examining Authority.						
(5 are) estation con	ntains indications relati	ng to the following items:				
			1			
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Box No. II Priority	dan navalmi inv	mive eten and industrial applicabi	lity			
Box No. III Non-establishment of opinion with	regard to novelty, nivi	Silling 20th mig manage of Land				
Box No. IV Lack of unity of invention						
Box No. V Reasoned statement under Rule 66 citations and explanations supporti	i.2(a)(ii) with regard to ing such statement	novelty, inventive step or industri	at applicability,			
Box No. VI Certain documents cited						
Box No. VII Certain defects in the international	l application		}			
Box No. VIII Certain observations on the interna						
3. The applicant is hereby invited to reply to this opinion.		and the state and again	this Authority to			
When? See the time limit indicated above. The applic grant an extension, see Rule 66.2(e).						
How? By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3.  For the form and the language of the amendments, see Rules 66.8 and 66.9.						
Also For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4bis.  For an informal communication with the examiner, see Rule 66.6.  For an additional communication with the examiner, see Rule 66.4.						
If no reply is filed, the international preliminary examination report will be established on the basis of this opinion.						
4. The final date by which the international preliminary report on patentability  (Chapter II of the PCT) must be established according to Rule 69.2 is: 24-10-2004						
N	Authorized offi	cer				
Name and mailing address of the IPEA/SE Patent- och registreringsverket						
Box 5055	Magnus W	lestöö /itw				
S-102 42 STOCKHOLM	Telephone No.	46 8 782 25 00				

Facsimile No. 46 8 667 72 88
Form PCT/IPEA/408 (cover sheet) (January 2004)

WRITTEN OPINION OF THE
INTERNATIONAL IMINARY EXAMINING AUTHORITY

International application No.

/FI 2003/000508

Box	No. 1	Basis of the opinion					
<ol> <li>With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.</li> </ol>							
		This opinion is based on a translation from the original language into the following language, which is the language of a translation furnished for the purposes of:					
		international search (under Rules 12.3 and 23.1(b))	l				
		publication of the international application (under Rule 12.4)					
		international preliminary examination (under Rules 55.2 and/or 55.3)	l				
2.	which	and to the elements of the international application, this opinion has been established on the basis of (replacement sheets be been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as by filed."):					
	$\boxtimes$	the international application as originally filed/furnished	İ				
		the description:	المما				
		pages as originally filed/fun					
		pages received by this Authority on					
	$\Box$						
		the claims:  as originally filed/fun	nished				
		pages	1				
		pages as anicheed (together with any statement) after a pages received by this Authority on					
		pages received by this Authority on					
	П	the drawings:					
	<u>ا</u>	pages as originally filed/fur	nished				
1		pages received by this Authority on					
		pages received by this Authority on					
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.					
3.		The amendments have resulted in the cancellation of:					
		the description, pages					
		the claims, Nos.	ļ				
		the drawings, sheets/figs					
		the sequence listing (specify):					
		any table(s) related to the sequence listing (specify):					
4.		This opinion has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).					
		the description, pages					
		the claims, Nos.					
		the drawings, sheets/figs					
		the sequence listing (specify):					
		any table(s) related to the sequence listing (specify):					
t			_				

Form PCT/IPEA/408 (Box No. I) (January 2004)

International application No.

PQ 71 2003/000508

## WRITTEN OPINION OF THE INTERNATIONAL PRINTERNATIONAL PRINTERNA

Claims

Claims

Bo	x No. V	Reasoned statem citations and exp	ent under Rule 66.2( planations supporting	a)(ii) with regard to novelty, inventive step or industrial applicability; such statement
1.	Statement			
	Nove	lty (N)	Claims Claims	
	Inven	ative step (IS)	Claims Claims	1.2.10

## 2. Citations and explanations:

Industrial applicability (IA)

Cited document D: US 5940564 A

Document D is cited as a document of the category "X" in the International Search Report.

Document D discloses an optoelectronic component 14,52 and a support structure 66 having a hole, see especially figure 3. An alignment feature 62 is arranged on the surface of the component, and it is mentioned in the description that this feature may be any passive alignment feature known in the alignment art (col. 14, lines 16-20). The use of stud bumps as alignment feature, as defined in the independent claims 1 and 10 in the International Application, is deemed trivial. Document D discloses that the alignment feature is arranged along the periphery of the hole, thus aligning the component to the hole. Thus claims 1 and 10 are deemed to lack an inventive step.

It is evident from figure 3 in document D that the outer surface of the alignment feature is arranged against the hole walls. Thus claim 2 is deemed to lack an inventive step.